

EN/FR



ENGLISH

035T83007-000

INSTALLATION & OWNER'S MANUAL

MINISPLIT HIGH WALL

AIR CONDITIONER

MODELS : MHC-MHH/BOC-BOH 07-35

REQUIRED TOOLS

1. Screw driver
2. Hexagonal wrench
3. Torque wrench
4. Spanner
5. Reamer
6. Hole core drill
7. Tape measure
8. Thermometer
9. Manifold Gauge
10. Gas leak detector
11. Vacuum pump
12. Pipe clamp
13. Pipe Cutter
14. Flare Tool Set
15. Electrical Circuit tester

EXTENDED PARTS

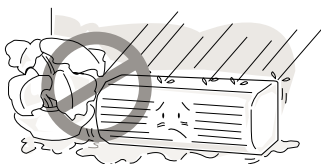
Models	MHC-MHH/BOC-BOH		
	07-09	12	18-35
Liquid size	1/4 inch	1/4 inch	3/8 inch
Gas size	3/8 inch	1/2 inch	5/8 inch

SAFETY PRECAUTIONS

- Please read this installation manual carefully before starting installation of the unit.
- This air conditioning system contains refrigerant under pressure, rotating parts and electrical connection which may be dangerous and can cause injury. Installation and maintenance of this air conditioning system should only be carried out by trained and qualified personnel.
- After unpacking, please check the unit carefully for possible damage.
- Before undertaking any work on the unit, make sure that the power supply has been disconnected.

CAUTIONS FOR INSTALLATION

- ∞ Do not store or unpack the unit in a wet area or expose to rain or water.



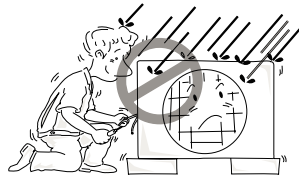
It may cause the unit to short circuit and may result electric shocks or fire.

- ∞ Do not install in a place where flammable gas may leak.



It may cause fire.

- ∞ Do not conduct installation in wet area or in the rain.



It is a high risk to cause the electrical shocks.

- ∞ This system is designed for domestic or residential use only.



If used in certain environments, such as a manufacturing workplace, the equipment may not function efficiently.

WARNING

Failure to follow a warning may result in death or serious injury.

CAUTION

Failure to follow a caution may result in serious injury or property damage, and in certain conditions, may result in a grave consequence.

• Electrical connections

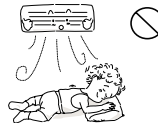
All electrical wiring and connections must comply with local codes and standards. Power supply cord and interconnection cord used must not be lighter than Polychloroprene sheathed cord (245 IEC 57 or H05RN-F). Disconnecting device must have a contact separation of at least 3 mm.

• The following symbols are often used in this manual.

	Strictly prohibited.		Be sure to follow the instructions.
	Be sure to earth the air conditioner.		Be sure to disconnect the power plug.
	Do not touch the air conditioner with a wet hand.		Do not cause the air conditioner (including the remote controller) to get wet.

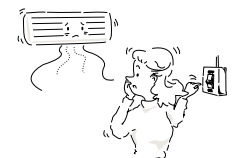
WARNING

Do not expose your body directly to the cool (or hot) air for prolonged period; do not cool (or hot) the room too much.

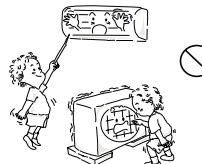


This could effect your physical condition and cause health problems.

If anything abnormal such as a burning smell occurs, stop the operation immediately and turn the breaker off.



Do not put a finger, a rod or other objects into the air outlet or inlet.



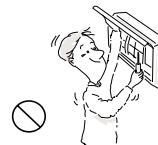
As a fan is rotating at a high speed, it will cause injury.

Continued abnormal operation will cause troubles, electric shocks, fire etc. If anything is abnormal consult the shop where you bought the air conditioner.

Do not attempt to extend the power cord by joining it to another cord, or by using an extension cord. Do not put any other loads on the power supply socket.

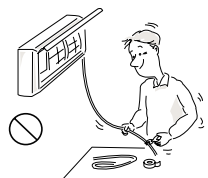


Do not attempt to repair, relocate, modify or reinstall the air conditioner by yourself.



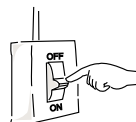
Incorrect work will cause electric shocks, fire etc. For repairs and reinstallation, consult the shop where you bought the air conditioner.

Do not damage or attempt to modify the power cord. Do not use the cord in a damaged state or tie in a bundle.



CAUTION

Before cleaning, be sure to stop the operation and turn the breaker off.



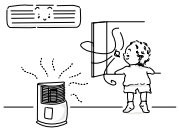
As the fan is rotating at a high speed, cleaning during operation may cause injury.

Do not operate the air conditioner with a wet hand.



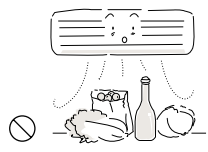
It may cause an electric shock.

Ventilate the room from time to time.




Be careful especially when using a burning appliance in the same room. Insufficient ventilation may cause shortage of oxygen.

Do not use the air conditioner for food preservation purpose.




Do not connect the air conditioner to a power supply different from the specification.

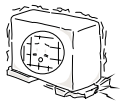


It may cause trouble or fire.

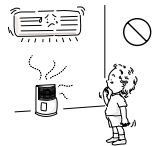
Do not stand or sit on the outdoor unit, do not place any object on the unit.




After a long use, check the unit fixing for damage.




Do not place a burning appliance in a place exposed to the air flow from the unit or under the indoor unit.




Do not wash the unit with water.



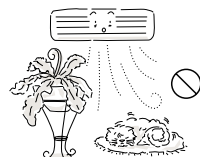
Do not place anything under the indoor or outdoor unit which must be kept away from moisture.



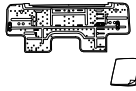
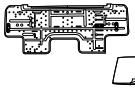
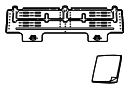
















Do not place a vessel containing water on the unit.



Do not expose plants or animals directly to the air flow.

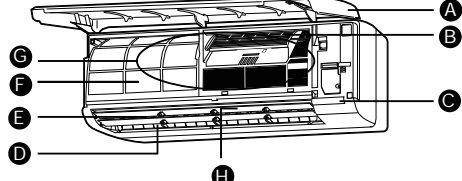


PART LIST

Part No.	Name of part			Quantity
	MHC-MHH/BOC-BOH 07, 09, 12	MHC-MHH/BOC-BOH 18, 25	MHC-MHH/BOC-BOH 35	
1				X1
2				X1
3	Drain Hose			X1
	*Included with indoor unit			
4	Central mounting bracket			X1
	*Not supplied			
5	Screws and Anchor Set			X4
				
6	Remote Control and Batteries set			X1
				
7	Installation & Owner's manual and user's guide			X1
				

NAME OF PARTS

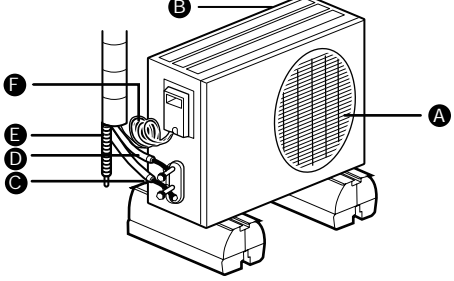
INDOOR UNIT



A Front Grille
B Air Purifying Filter
C Indicator Lamps
D Flap Vertical Blades

E Air Outlet
F Air Filter
G Air Inlet
H Louver Horizontal Blades

OUTDOOR UNIT



A Air Outlet
B Air Inlet
C Refrigerant gas piping

D Refrigerant liquid piping
E Additional drain hose
F Connecting Cable

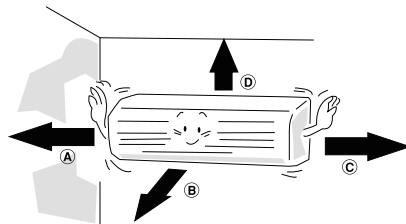
PREPARATION BEFORE INSTALLATION

- Before doing any work, check the interior power supply cord and the main breaker capacity are sufficient and the installation area is sufficient and comp•lies with the requirements.
- Check that the power supply available agrees with nameplate voltage.
- Electrical work, wiring and cables must be performed in compliance with national and local wiring codes and standard.
- Do not use the extension cables. In the case extended cables are needed, use the terminal block.

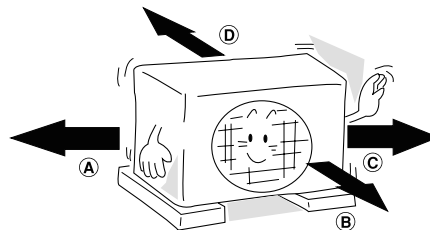
SELECTION OF THE LOCATION

- Select a place which provides the space around the units as shown in the diagram below.

INDOOR



OUTDOOR

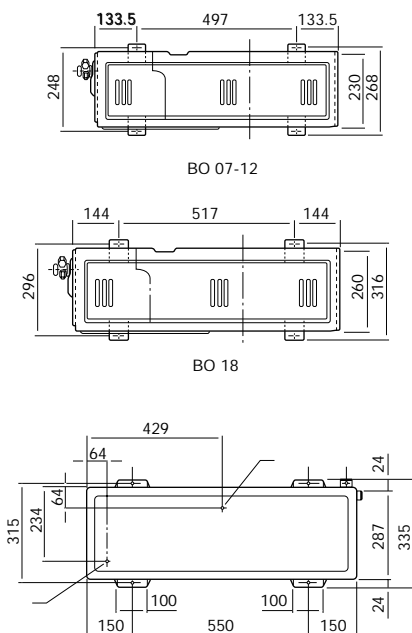


Models	MHC-MHH/BOC-BOH					
	07	09	12	18	25	35
A	60cm	60cm	60cm	60cm	60cm	60cm
B	70cm	70cm	70cm	70cm	70cm	70cm
C	60cm	60cm	60cm	60cm	60cm	60cm
D	10cm	10cm	10cm	10cm	10cm	10cm

Models	MHC-MHH/BOC-BOH					
	07	09	12	18	25	35
A	20cm	20cm	20cm	20cm	20cm	20cm
B	60cm	60cm	60cm	60cm	60cm	60cm
C	40cm	40cm	40cm	40cm	40cm	40cm
D	20cm	20cm	20cm	20cm	20cm	20cm

CAUTIONS

Do not install in a place that cannot bear the weight of the unit.



INSTALLATION

CAUTION

The air conditioner must be earthed in accordance with the local codes.



Incomplete earthing may result in electric shock. Do not connect the earth line to a gas pipe, lightning rod or a telephone earth line.

Arrange the drain hose to ensure smooth drainage.



Incomplete drainage may cause wetting of the building, furniture etc.

Do not install the air conditioner in places where flammable gas may leak.



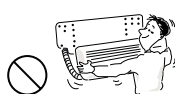
If leaked gas should accumulate near the unit, fire may occur.

Depending on the environment and local codes, an earth leakage breaker must be installed.



WARNING

Do not attempt to install the air conditioner yourself.



Consult the service shop or qualified technician. Incorrect installation will result in water leakage, electric shock or fire. For installation, consult the service shop where you bought the unit or a qualified technician.

INSTALLATION SITE

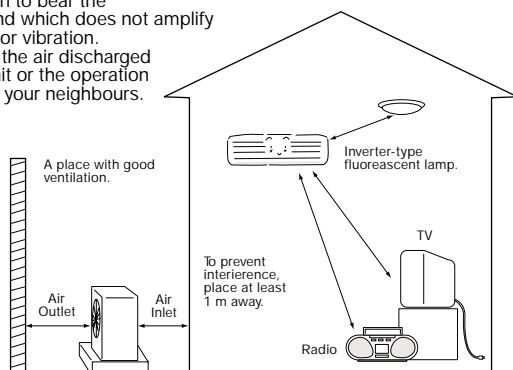
To install the air conditioner in the following types of environments, consult the shop.

- ∞ Places with an oily ambient or where steam or soot occurs.
 - ∞ Salty or corrosive environments such as coastal areas.
 - ∞ Places where sulfide gas occurs such as hot springs.
- The drain from the outdoor unit must be discharged to a place of good drainage.

CONSIDER NUISANCE TO YOUR NEIGHBOURS FROM NOISES

For installation choose a place as described below.

- ∞ A place solid enough to bear the weight of the unit and which does not amplify the operation noise or vibration.
- ∞ A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.



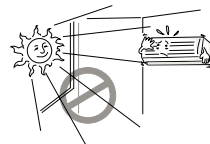
ELECTRICAL WORK

- ∞ For power supply, be sure to use a separate power circuit dedicated to the air conditioner. System relocation

SYSTEM RELOCATION

- ∞ Relocating the air conditioner requires specialized knowledge and skills. Please consult the shop where you bought the air conditioner if relocation is necessary for moving or remodelling.

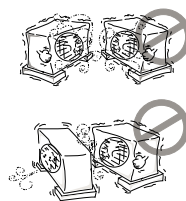
INSTALLATION IN THE FOLLOWING PLACES MAY RESULT IN TROUBLE



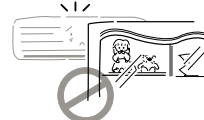
Installation of the indoor unit in direct sun light.



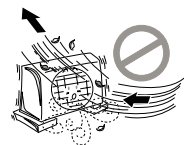
Installation in the unit wrong direction.



Installation of outdoor units too close or, blowing discharged air into each other.



Installation of the indoor unit in a place where there is an obstacle near the air inlet or outlet.

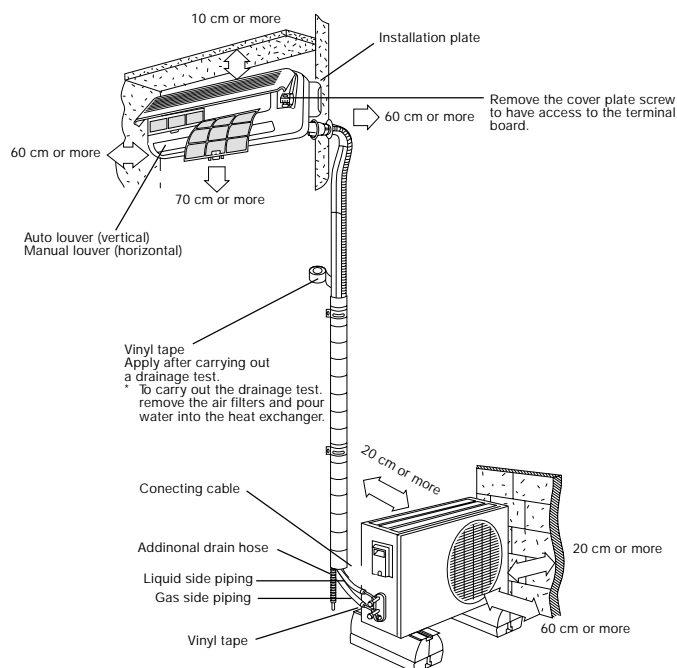


Installation of the outdoor unit in a place exposed regularly to a strong wind.



Installation of the indoor unit at too low a position

INSTALLATION DIAGRAM

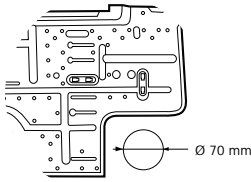


INSTALLATION PROCEDURE

INDOOR UNIT

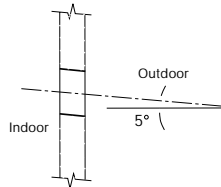
Fixing

- Place the installation guide pattern on the designated installation place and mark the hole position.
- Drill a hole and mount installation plate

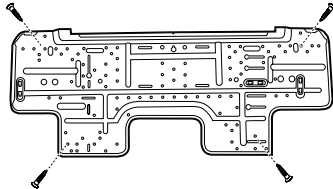


- After determining the pipe hole position. Drill the hole at a slight downward slant towards the outdoor side.

Note: When installing the refrigerant pipes from others side. A hole must be place to allow fall towards the outdoor unit.



- Make $\phi 5\text{mm}$. 4-6 holes, in the wall at the four corners of mounting plate (bracket) then insert appropriate mounting devices.
- Install the mounting plate using 4-6 pieces of mounting screw securely at four corners and tighten the screw completely. Do not over tighten the screws and deform the back plate.



Caution

Be careful when handling the sharp edge of the mounting plate.

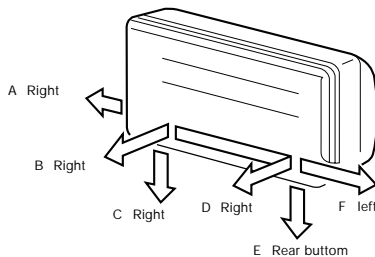
Wiring

- This indoor unit is ready for connection to the outdoor unit.

Cautions

- Never modify the unit by removing any of the safety guards or by bypassing any of the safety interlock switches.
- Connect the interconnecting cable correctly and connect the connecting cable to terminal as identified with their respective marking.
- Do not damage the conductor core or inner insulation of power supply cables and do not deform or crush the cables.

Piping



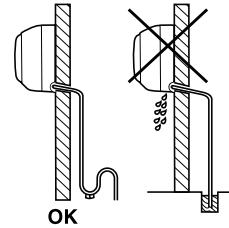
The auxiliary piping can be connected in the diections shown the above diagram. To connect in the D, E and F direction, pipes will need to be extended.

Cautions

- Bend pipes carefully to avoid flattening or obstructing them if the pipes are bent incorrectly, the indoor unit may be unstable on the wall.
- Carefully arrange pipes so that pipes do not stick out of the rear plate of the indoor unit

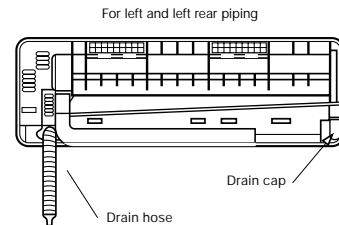
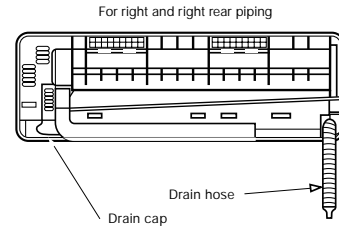
Drain hose

- Drain hose is flexible and can be routed to suit various piping arrangements. The drain line must include elbow trap (U bend). Connect a plastic condensate pipe with an internal diameter of 12 mm.



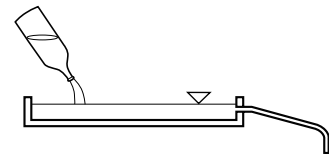
Note: Do not put the drain hose end into water.

- The drain hose can be connected to the left or the right side. For left and left rear piping



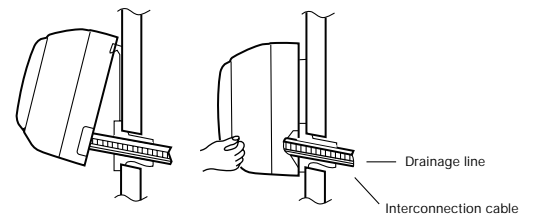
Verification of condensate water drainage:

Fill the drain pan with water and observe evacuation.



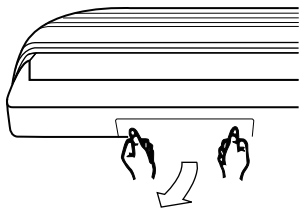
Indoor Unit Fixing

- Thread the indoor unit piping and cable through the hole.
- Hang the top of the unit onto the upper ridge of them in mounting plate.
- Make sure that the unit is correctly hung in place by sliding it to the left, then to the right.
- Press the bottom left and bottom right hand corners of the unit against the mounting plate until the fixing prongs click into place in the retainers provided to that effect.

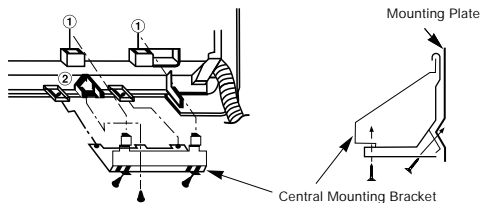


(MHC-MHH/BOC-BOH 07-25)

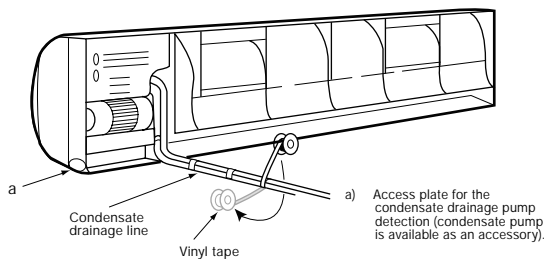
- For the model MHC-MHH 18, 25 and 35 and install the central mounting bracket as shown in the below diagram.



(MHC-MHH /BOC-BOH 18, 25 and 35)



(MHC-MHH/BOC-BOH 18, 25 and 35)



Note: The condensate evacuation line should be taped to the refrigerant lines with vinyl tape.

OUTDOOR UNIT

Fixing and Piping

- Piping must be performed by qualified personnel according to good refrigeration systems practices.
- Piping materials and insulation materials must be of refrigerant quality.
- Select the pipe diameters according to the size of unit and cut the pipe to design length by using pipe cutter.
- Install the flare nuts and flare the end of the pipes.
- Check that no foreign bodies are inside the piping.
- Align the central of the connecting pipes and tighten the flare nut.
- Fix piping with pipe clamps and check that any pipe vibrations cannot be transmitted to the building structure.

Notes

- Connect the pipe correctly.
- Do not apply the excessive torque.
- Use an appropriate bending tool to form curves and avoid over-tightening the refrigerant tubes.
- To prevent heat loss, the two lines must be insulated separately.

Maximum piping lengths

Unit size	7	9	12	18	25	35
D (m)	10	12	15	15	22	22
L (m)	12	15	18	18	25	25
H (m)	7	10	12	12	20	20

Note : Where the difference in elevation between the indoor unit and the outdoor unit is greater than 5 meters, install an oil trap every 5 meters.

The suction line must have a 2% gradient up to the compressor on horizontal sections.
Where piping lengths are unusually long and include a large number of oil traps, it may be necessary to adjust to compressor charge.

Refrigerant charge to be added per extra metre of piping length when more than 7.5 meters.

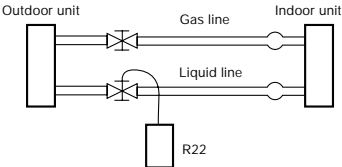
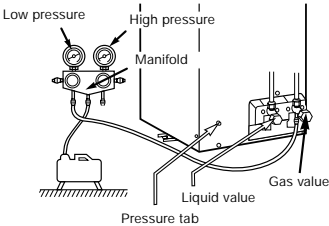
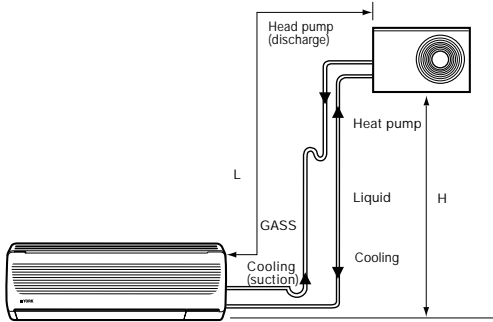
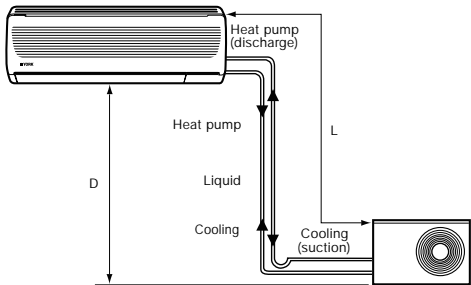
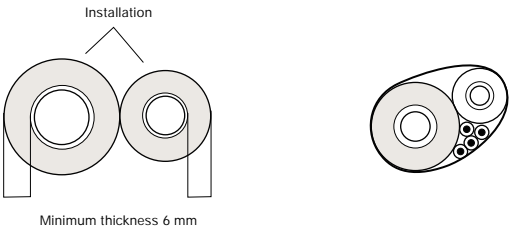
Unit size	MHC-MHH/BOC-BOH					
	7	9	12	18	25	35
g/m	15	15	15	40	40	40

Refrigerant piping connections (FLARE connections)

To avoid alteration of unit capacities, check that piping lengths and changes in elevation are kept to a strict minimum.

Before connection the refrigerant lines, follow the procedures below (if pre-charged connection lines are not supplied):

- Select copper pipe diameters according to the size of unit to be installed.
 - Install the refrigeration lines, checking that no foreign boodies get inside the piping.
 - Install the flare connectors and flare the ends of the pipes.
 - Evacuate the piping. This operation, which should last at least 15 minutes if there are large piping lengths and changes in elevation, should be followed by a leak test.
- To this effect, when the piping has been evacuated, close the pressure gauge tap, note the value on the gauge, then wait for 15 minutes. If the needle moves, there is a leak in the system. Make the necessary adjustments or repairs and repeat this procedure until the needle no longer moves.
- Open the service valves and top up the refrigerant charge if necessary.

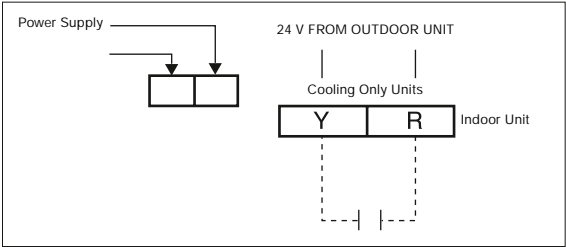


This unit is shipped complete with a charge of R22 refrigerant that will be sufficient for an interconnecting piping length of 5 meters.

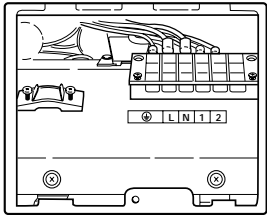
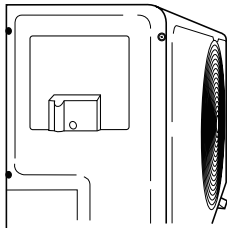
Vertical Discharge Condensing Unit (H*DA, H*DB, H*RA)

The indoor unit and interconnecting wiring voltage is 220 volts. Where the outdoor unit requires a different operating voltage such as 24 volts one of the following solutions can be applied.

- 1. The coil of the relay switching the compressor and reversing valves should be changed to a 220V coil.
- 2. A transformer should be installed to supply 24 volts and a relay installed with a 220 volt coil to switch the 24 volts required by the outdoor units. The transformer should be energised at all times and not switched by the start signal from the indoor unit. Switching the transformer directly will cause electronic noise which may cause malfunction of the electronics.



Wiring



For further detail on wiring of these units, see the diagrams pasted inside each unit

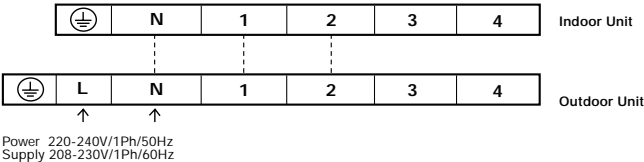
⚠ Cautions

- Never modify the unit by removing any of the safety guards or by bypassing any of the safety interlock switches.
- Connect the connecting cable correctly and connect the connecting cable to terminal as identified with their respective marks.
- Do not scratch the conductive core & inner insulator of power supply cables and do not deform or smash on the surface of cables.

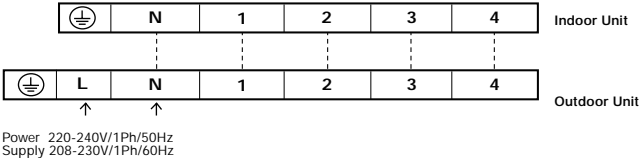
Electrical Connections

All electrical wiring and connections must comply with local codes and standards. Power supply cord and interconnection cord used must not be lighter than Polychloroprene sheathed cord (245 IEC 57 or H05RN-F). Disconnecting device must have a contact separation of at least 3 mm.

MHC-07-35 -Cooling Only



MHH-07-35 -Heat Pump



For correct installation, a proper ground connection must be made for unit.

Wiring sizes

Unit size		7	9	12	18	25	35
Power supply	mm²	3x2.5			3x4		5x2.5
Interconnection (Indoor/Outdoor)	Cooling mm² Heating mm²	3x2.5 + Ground 4x2.5 + Ground					
Fuse (Slow-Blow)	A	10			16	20	10

Or as required to meet national and local codes.

Notes

- Terminals N and 1 (see diagrams above) correspond to power supply to the indoor unit coming from the outdoor unit.
- Compressor power supply is established by teminal 2.
- Power supply to the 4-way valve is established by terminal 3.
- Outdoor fan power supply is connected to terminal 4.
- For further details on wiring of these units, see the diagrams pasted inside each unit.

TEST OPERATION

Check this item before start operation

Outdoor

- Check the flare nut connections, valve stem cap connections and service cap connections for gas leak with a leak detector or soap water.

Indoor

- Check the unit is firmly fixed.
- Check the connecting pipes are tighten securely.
- Check the pipe insulation.
- Check the drainage.
- Check the connection of the grounding wire.

PROTECTION MODES

Your air conditioner includes several automatic protection modes, which enables you to use it virtually at any time and in any season, regardless of the outdoor temperature. Some of the protection modes are listed below:

Mode	Operation conditions	Protection from	Controlled remedy
Cooling and Dry	Low outdoor temperature	Indoor coil freezing up	Stop outdoor fan and compressor when approaching freezing conditions. Resumes operation automatic.
	High outdoor temperature	Outdoor coil overheating	Stops compressor when approaching over heating conditions. Resumes operation automatic. operating indicator blinks.
Heating	Low outdoor temperature	Outdoor coil ice build up	Reverses operation from heating to cooling for short periods to de-ice outdoor coil. operating indicator blinks
	High indoor or outdoor temperature	Indoor coil overheating	Stop outdoor fan and compressor when approaching high indoor coil temperature. Resumes operation automatically.

TROUBLE SHOOTING GUIDE

Problem	Probable cause	Remedy
A. The air conditioner does not run.	<ol style="list-style-type: none"> Power Failure. Fuse blown or circuit breaker open. Voltage is too low. Faulty contactor or relay. Electrical connections loose. Thermostat adjustment too low (in heating mode) or too high (in cooling mode) Faulty Capacitor Incorrect wiring, terminal loose Pressure switch tripped 	<ol style="list-style-type: none"> Wait for Power resume. Replace the fuse or reset the breaker. Find the cause and fix it. Replace the faulty component. Retighten the connection. Check Thermostat setting. Find the cause then replace capacitor. Check and retighten. Find the cause before reset.
B. The outdoor fan runs but the compressor will not start.	<ol style="list-style-type: none"> Motor winding cut or grounded. Faulty Capacitor. 	<ol style="list-style-type: none"> Check the wiring and the compressor winding resistance. Find the cause then replace Capacitor.
C. There is insufficient heating or cooling.	<ol style="list-style-type: none"> There is a gas leak. Liquid and gas line insulated together. The room was probably very hot (cool) when you started the system. 	<ol style="list-style-type: none"> Remove charge, repair, evacuate and recharge. Insulate them separately. Wait while unit has enough time to cool the room.
D. The compressor run continuously	<ol style="list-style-type: none"> Thermostat adjustment too low (in heating mode) or too high (in cooling mode) Faulty fan. Refrigerant charge too low, leak. Air or incondensables in refrigerant circuit. 	<ol style="list-style-type: none"> Check thermostat setting. Check condenser air circulation. Find leak, repair and recharge. Remove charge, evacuate and recharge.
E. The compressor starts but shuts down quickly.	<ol style="list-style-type: none"> Too much or too little refrigerant. Faulty compressor. Air or incondensables in refrigerant circuit. Changeover valve damaged or blocked open (heat pump unit) 	<ol style="list-style-type: none"> Remove charge, evacuate and recharge. Determine the cause and replace compressor. Remove charge, evacuate and recharge. Replace it.
F. Clicking sound is heard from the air conditioner.	In heating or cooling operation any plastic parts may expand or shrink due to a sudden temperature change in this event, a clicking sound may occur.	In heating or cooling operation any plastic parts may expand or shrink due to a sudden temperature change in this event, a clicking sound may occur.

BEFORE CALLING FOR SERVICE

Before calling for service, please check the following common malfunctions and correct as needed.

Problem	Cause	Remedy
A. United does not operate. Stand-by indicator does not light up.	<ol style="list-style-type: none"> Unit not connected to power Power failure. 	<ol style="list-style-type: none"> Plug in the power cord. Check main fuse.
B. Unit does not operate. Stand-by indicator lights.	<ol style="list-style-type: none"> Remote control malfunctions. The remote control is locked. 	<ol style="list-style-type: none"> Check remote control batteries. Try to operate from a closer distance. Start from on-units controls. Perform reset operation by pressing button: TIMER UP buttons, TIMER DOWN buttons, TIMER SET buttons, TIMER CLEAR buttons for 5 sec. Unlock the remote control.
C. Unit does not respond properly to remote control command.	<ol style="list-style-type: none"> Infra Red signal does not reach unit. Distance between remote control and unit too large or aimed at from improper angle Infra Red receiver on-unit exposed to strong light source. 	<ol style="list-style-type: none"> Check for obstruction between unit remote control. Clear if need. Get closer to unit. Dim lights, fluorescents especially
D. Air does not blow out from indoor unit.	<ol style="list-style-type: none"> De-icing protection mode is activated. Unit in AUTO FAN mode. Over cooling in DRY. 	<ol style="list-style-type: none"> Normal operating in HEATING mode. Normal operating in DRY mode.
E. COOLING, DRY or HEATING does not start immediately.	<ol style="list-style-type: none"> 3-min. compressor delayed start. 	<ol style="list-style-type: none"> Normal operating for these modes.
F. Unit functions but does not perform sufficiently.	<ol style="list-style-type: none"> Improper temperature setting Unit capacity insufficient for load or room size 	<ol style="list-style-type: none"> Reset temperature. Consult your dealer.
G. Filter indicator light up.	<ol style="list-style-type: none"> Air filter needs cleaning. 	<ol style="list-style-type: none"> Clean filter, reinstall and reset indicator.

TECHNICAL SPECIFICATION

Models		Indoor Unit	MHC-MHH								
		07	09	12	18	25		35			
		Outdoor Unit	BOC-BOH								
		07	09	12	18	25		35			
Power Supply		V/Ph/Hz	220-240/1/50 or 315-450/3/50								
		Ph	1	1	1	1	1	3	1	3	
Maximum Power Consumption		kW	0.7	0.85	1.2	2	2.8	2.71	3.37	3.29	
Running Current		A	3.5	4.5	5.6	9.1	11.5	5.34	16.26	6.65	
Fuse size		A	10	10	10	16	20	10	32	16	
System Operation Control		Wireless Remote Control with LCD Display									
Compressoe Type		Rotary					Rot./Recip.		Reciprocating		
Power Supply		V/Ph/Hz	208-230/1/60 or 308-460/3/60								
		Ph	1	1	1	1	1	1	1	3	
Maximum Power Consumption		kW	0.8	1.09	1.2	2.0	2.80		3.71	4.05	
Running Current		A	3.5	4.5	5.6	9.1	11.5		17.04	6.94	
Fuse size		A	10	10	10	16	20		10		
Compreso Types		Rotary					Reciprocating				
Piping		Suction	3/8"	3/8"	1/2"	5/8"	5/8"		5/8"		
		Liquid	1/4"	1/4"	1/4"	3/8"	3/8"		3/8"		
Dimensions		Indoor	H(mm)	290	290	290	315	356		356	
			W(mm)	799	799	799	1019	1019		1156	
			D(mm)	181	181	181	180	180		203	
			H(mm)	492	492	492	590	696		900	
		Outdoor	W(mm)	764	764	764	820	850		850	
			D(mm)	230	230	230	280	287		285	
Weights		Indoor	kg	8	8	8	12	12		23	
		Outdoor	kg	34	36	38	59	65		76	

MAINTENANCE

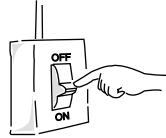
The units are designed to operate for long periods of time with a minimum of maintenance. However, the following operation must be performed regularly.

	Maintenance operations	Recommended Frequency
Air filter	Clean	Every month or more often if necessary.
Air Purifying filter	Change/Replace a new set	Every 4 months
Unit casing	Clean	Every month or more often if necessary
Drain pan and evacuation piping	Clean and check for obstructions	Each season before start up*
Indoor/outdoor coils	Clean	Each season before start up*
Compressor	No need	

* This operation must be carried out by qualified personnel only.

BEFORE MAINTENANCE

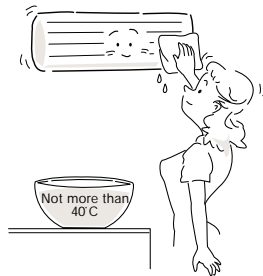
⚠ Turn off the main breaker or disconnect the main power supply.



Notes

- Don't spill water : There is a danger of electric shock.
- Don't used petrol, paint thinner, benzene or polishing agents : They may deform or scratch the unit.

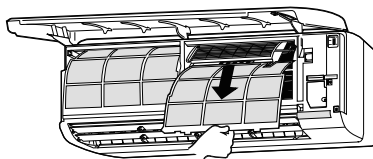
Wipe the unit with a soft dry cloth only. If the unit is very dirty, wipe it with a cloth soaked in warm water (Not more than 40°C).



CLEANING THE AIR FILTER

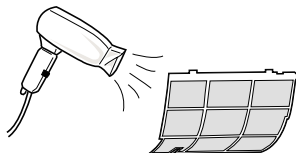
1 Remove the air filter.

Lightly hold the knobs at both sides and lift a little to remove the filter to this side.

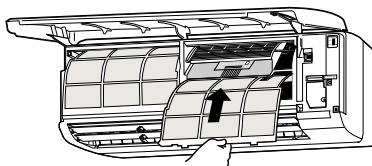


2 Cleaning.

If the filter is very dirty, clean it with water (approx. 30°C), and dry it thoroughly.

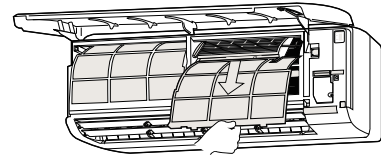


3 Reinstall the air filter.

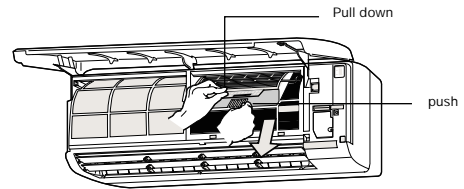


REPLACEMENT OF AIR PURIFYING FILTER

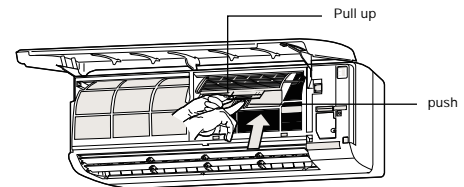
1 Remove the filter.



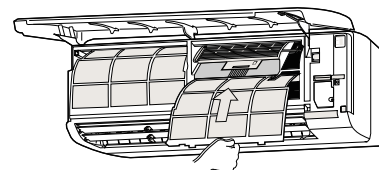
2 Remove the air purifying filter.



3 Install a new air purifying filter.



4 Reinstall the air filter and securely close the front panel.



Air purifying filter

- If the air purifying filter is clogged, it may lower the unit's capacity or cause condensation at air outlet.
- The air purifying filter is disposable. the standard usable interval is about 4 mounts. However, if the color of the filter turns dark brown, replace it at once.

DE - COMMISSIONING DISMANTLING & DISPOSAL

This product contains refrigerant under pressure, rotating parts, and electrical connections which may be a danger and cause injury! All work must only be carried out by competent persons using suitable protective clothing and safety precautions.



Read the Manual



Risk of electric shock



Unit is remotely controlled and may start without warning



1. Isolate all sources of electrical supply to the unit including any control system supplies switched by the unit. Ensure that all points of electrical and gas isolation are secured in the OFF position. The supply cables and gas pipework may then be disconnected and removed. For points of connection refer to unit installation instructions.
2. Remove all refrigerant from each system of the unit into a suitable container using a refrigerant reclaim or recovery unit. This refrigerant may then be re-used, if appropriate, or returned to the manufacturer for disposal. **Under No circumstances should refrigerant be vented to atmosphere.** Where appropriate, drain the refrigerant oil from each system into a suitable container and dispose of according to local laws and regulations governing disposal of oily wastes.
3. Packaged unit can generally be removed in one piece after disconnection as above. Any fixing down bolts should be removed and then unit lifted from position using the points provided and equipment of adequate lifting capacity. Reference MUST be made to the unit installation instructions for unit weight and correct methods of lifting. Note that any residual or split refrigerant oil should be mopped up and disposed of as described above.
4. After removal from position the unit parts may be disposed of according to local laws and regulations.



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